Knee Ottowa Ankle Rules

A knee x-ray series is required for knee injury patients with one of the following			
findings:			
1. Age 55 or older?	Yes or No		
2. Isolated Tenderness of Patella (no bone tenderness of knee other	Yes or No		
than patella)?			
3. Tenderness of head of fibula?	Yes or No		
4. Inability to flex to 90°?	Yes or No		
5. Inability to bear weight both immediately and in the emergency	Yes or No		
department for 4 steps (unable to transfer weight twice onto each			
lower limb regardless of limping)?			

Special Tests

- P	1	T.	1		
Structure to be	Initial Test	Most Specific Test	Results and		
assessed			Indications		
Medial collateral	Valgus stress full	Valgus stress at	Valgus stress at		
ligament (MCL)	extension >5mm;	30º flexion > 5mm	30º flexion > 10		
	check PCL and ACL		mm; check ACL		
Lateral collateral	Varus stress full	Varus stress at 30º	If laxity exists, LCL		
ligament (LCL)	extension; check	flexion isolates LCL	is injured; extent of		
	LCL, PCL, and ACL		injury dependent		
			on excursion and		
			end feel		
Posterior cruciate	Posterior drawer	Posterior saf;	If laxity increases		
ligament (PCL)		quadriceps	with posterior		
		activation shows	drawer in external		
		anterior	rotation, evaluate		
		translation of tibia	posterolateral		
			corner		
Anterior cruciate	Anterior drawer >	Lachman test with	Pivot shift;		
ligament (ACL)	6 mm	empty end feel	arthrometer		
			difference >3mm		
			side-to-side		
Posterolateral	Posterior drawer	Posterolateral	Prone external		
corner	increased at 30°	drawer	rotation test		
	and normal at 90°		increased at 30°,		
			not at 90°; I both,		
Maniana	M:1 D /1 1	History of the	check PCL		
Meniscus	Meniscal Pathology	History of catchin	If 5/5 present,		
	Composite Score	or locking, joint	92.3% of positive		
		line tenderness,	meniscal tear; 75%		
		pain with forced	if 3/5 are positive		
		hyperextension,			
		pain with maximal			
		knee passive flexion, and pain or			
		audible click with			
		McMurray			
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Knee Questionnaire Indices.*

Knee Questionnaire	muices.	T	
Indices	Indication	MCD	Comment
Western Ontario	Osteoarthritis	Pain subscale: 22.39	Strong for pain,
and McMaster	Total Knee	Stiffness subscale:	stiffness, and
Universities	Arthroplasty?	29.12	physical function
Osteoarthritis		PF subscale: 13.11	in osteoarthritis
Index		Other: 14	
International Knee	Knee ligament	11.5	Not sensitive for
Documentation	injury		sports-related
Committee			function
Questionnaire			May overestimate
			the disability of an
			injury
Lysholm Knee	Ligament and	10 points	Evidence for
Score	meniscal		usefulness in
	injuries		inconclusive
Cincinnati Knee	Nonspecific	Pain 2.45	Responsive for
Rating System	knee	Swelling 2.86	changes in pain,
		Partial Giving way	swelling, giving
		2.82	way, symptoms,
		Full giving way 2.30	sports function and
			overall rating
Knee Outcome	Nonspecific	8.87	Responsive for
Survey	knee		functional limits
			for a variety of
			impairments
Lower Extremity	All lower-	9	Useful with
Function Scale	extremity		patients following
	conditions		arthroplasty and
			lower extremity
			conditions of
			musculoskeletal
			origin
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